## In the Claims:

**1.** (currently amended): An optical recording medium comprising a substrate, a reflecting layer and a recording layer, wherein the recording layer comprises a compound of formula  $[L_1M^{r-4}L_2]_o[A^{m-}]_p[Z^{n+}]_q$  (I),  $[L_1M^{r-3}L_3]_o[A^{m-}]_p[Z^{n+}]_q$  (II) or  $[L_3M^{r-2}L_4]_o[A^{m-}]_p[Z^{n+}]_q$  (III), which compound of formula (I), (II) or (III) may also be in a mesomeric or tautomeric form, wherein

$$R_7$$
 $R_8$ 
 $R_8$ 
 $R_8$ 
 $R_8$ 
 $R_8$ 
 $R_1$ 
 $R_2$ 
 $R_1$ 
 $R_3$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_3$ 
 $R_2$ 
 $R_3$ 

L<sub>1</sub> and L<sub>2</sub> are each independently of the other

$$G_1$$
 $N$ 
 $Q_3$ 
 $Q_1$ 
 $Q_1$ 
 $Q_2$ 

 $L_3$  and  $L_4$  are each independently of the other

**M** indicating the position of  $M^{r-4}$ ,  $M^{r-3}$  or  $M^{r-2}$  in (I), (II) or (III), respectively;

$$G_{1} \stackrel{\text{C--}}{\mid \text{N--}} \text{ is } R_{6} \stackrel{\text{Q}_{2} \cdot \text{C--}}{\mid \text{N--}} \text{ , } R_{6} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{4} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{4} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \cdot \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \cdot \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{C--}}{\mid \text{Q}_{5} \cdot \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{ N--}}{\mid \text{Q}_{5} \cdot \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{ N--}}{\mid \text{Q}_{5} \cdot \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{ N--}}{\mid \text{Q}_{5} \cdot \text{ N--}} \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{ N--}}{\mid \text{Q}_{5} \cdot \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{ N--}}{\mid \text{Q}_{5} \cdot \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{ N--}}{\mid \text{Q}_{5} \cdot \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{ N--}}{\mid \text{Q}_{5} \cdot \text{ , } R_{7} \stackrel{\text{Q}_{5} \cdot \text{ N--}}{\mid \text{Q}_{5} \cdot$$

 $Q_1$  is  $CR_1$  or N,  $Q_2$  is O, S,  $NR_{10}$  or  $Q_5=Q_8$ ,  $Q_3$  is  $CR_3$  or N,  $Q_4$  is O, S,  $NR_{10}$  or  $Q_7=Q_8$ ,  $Q_5$  is  $CR_5$  or N,  $Q_6$  is  $CR_6$  or N,  $Q_7$  is  $CR_7$  or N,  $Q_8$  is  $CR_8$  or N, and  $Q_9$  is O, S,  $NR_{10}$  or  $Q_6=Q_8$ , preferably either  $Q_4$  is  $CR_4$  and  $Q_3$  is  $CR_3$  or  $Q_4$  and  $Q_3$  are both N, and/or  $Q_6=Q_8$ ,  $Q_6=Q_8$  or  $Q_7=Q_8$  is in the

 $\beta$ -position relative to the nitrogen atom of  $\gamma$ -and in the case of tautomers  $Q_1$  may also be  $NR_1$  and/or  $Q_3$  may also be  $NR_3$ ;

 $R_{1}$ ,  $R_{3}$ ,  $R_{4}$ ,  $R_{5}$ ,  $R_{6}$ ,  $R_{7}$  and  $R_{8}$  are each independently of the others H, halogen,  $OR_{9}$ ,  $SR_{9}$ ,  $NR_{10}R_{15}$ ,  $NR_{10}COR_{11}$ ,  $NR_{10}COOR_{9}$ ,  $NR_{10}CONR_{12}R_{13}$ ,  $NR_{10}CN$ ,  $OSiR_{10}R_{11}R_{14}$ ,  $COR_{10}$ ,  $CR_{10}OR_{11}OR_{14}$ ,  $NR_{9}R_{12}R_{13}^{+}$ ,  $NO_{2}$ , CN,  $CO_{2}^{-}$ ,  $COOR_{9}$ ,  $SO_{3}^{-}$ ,  $CONR_{12}R_{13}$ ,  $SO_{2}R_{10}$ ,  $SO_{2}NR_{12}R_{13}$ ,  $SO_{3}R_{9}$ ,  $PO_{3}^{-}$ ,  $PO(OR_{10})(OR_{11})$ ;  $C_{1}$ - $C_{12}$ alkyl,  $C_{2}$ - $C_{12}$ alkenyl,  $C_{2}$ - $C_{12}$ alkynyl,  $C_{3}$ - $C_{12}$ cycloalkyl,  $C_{3}$ - $C_{12}$ cycloalkenyl or

 $C_3$ - $C_{12}$ heterocycloalkyl each unsubstituted or mono- or poly-substituted by halogen,  $OR_9$ ,  $SR_9$ ,  $OR_{10}$ R $_{15}$ ,  $OR_{10}$ R $_{15}$ ,  $OR_{10}$ R $_{10}$ R $_{10}$ R $_{10}$ R $_{10}$ R $_{12}$ R $_{13}$ ,  $OR_{10}$ R $_{10}$ 

R<sub>2</sub> is OR<sub>9</sub>, SR<sub>9</sub>, NR<sub>10</sub>R<sub>15</sub>, NR<sub>10</sub>COR<sub>11</sub>, NR<sub>10</sub>COOR<sub>9</sub>, NR<sub>10</sub>CONR<sub>12</sub>R<sub>13</sub> or NR<sub>10</sub>CN;

each R<sub>9</sub>, independently of any other R<sub>9</sub>, is R<sub>15</sub>, COR<sub>15</sub>, COOR<sub>15</sub>, CONR<sub>12</sub>R<sub>13</sub>, CN or a negative charge, preferably H or a negative charge;

 $R_{10}$ ,  $R_{11}$  and  $R_{14}$  are each independently of the others hydrogen,  $C_1$ - $C_{12}$ alkyl,  $C_2$ - $C_{12}$ alkenyl,  $C_2$ - $C_{12}$ alkynyl,  $[C_2$ - $C_8$ alkylene-O- $]_k$ - $R_{16}$ ,  $[C_2$ - $C_8$ alkylene- $NR_{17}$ - $]_k$ - $R_{16}$  or  $C_7$ - $C_{12}$ aralkyl, it being possible for  $R_{10}$  in  $NR_{10}R_{15}$ ,  $NR_{10}COR_{11}$ ,  $NR_{10}COOR_9$ ,  $NR_{10}CONR_{12}R_{13}$  or  $NR_{10}CN$  additionally to be a delocalisable negative charge;

 $R_{12}$ ,  $R_{13}$  and  $R_{15}$  are each independently of the others H;  $C_1$ - $C_{12}$ alkyl,  $C_2$ - $C_{12}$ alkenyl,  $C_2$ - $C_{12}$ alkynyl,  $C_3$ - $C_{12}$ cycloalkenyl or  $C_3$ - $C_{12}$ heterocycloalkyl each unsubstituted or mono- or polysubstituted by halogen,  $OR_{10}$ ,  $SR_{10}$ ,  $NR_{10}COR_{11}$ ,  $NR_{10}COOR_{11}$ ,  $NR_{10}CONR_{11}R_{14}$ ,  $OSiR_{10}R_{11}R_{14}$ ,  $COR_{10}$ ,  $CR_{10}OR_{11}OR_{14}$ ,  $NR_{10}R_{11}R_{14}^+$ ,  $NO_2$ , CN,  $CO_2^-$ ,  $COOR_{10}$ ,  $SO_3^-$ ,  $CONR_{11}R_{14}$ ,  $SO_2NR_{11}R_{14}$ ,  $SO_2NR_{11}R_{14}$ ,  $SO_2R_{10}$ ,  $NR_{11}R_{14}$  and/or  $SO_3R_{10}$ ; or  $C_7$ - $C_{12}$ aralkyl,  $C_8$ - $C_{12}$ aryl or  $C_5$ - $C_9$ heteroaryl each unsubstituted or mono- or poly-substituted by  $R_{10}$ , halogen,  $OR_{10}$ ,  $SR_{10}$ ,  $NR_{10}COR_{11}$ ,  $NR_{10}COOR_{11}$ ,  $NR_{10}CONR_{11}R_{14}$ ,  $OSiR_{10}R_{11}R_{14}$ ,  $COR_{10}$ ,  $CR_{10}OR_{11}OR_{14}$ ,  $NR_{10}R_{11}R_{14}^+$ ,  $NO_2$ , CN,  $CO_2^-$ ,  $COOR_{14}$ ,  $SO_3^-$ ,  $CONR_{11}R_{141}$ ,  $SO_2R_{10}$ ,  $SO_2NR_{11}R_{14}$ ,  $SO_3R_{10}$ ,  $PO_3^-$ ,  $PO(OR_{10})(OR_{11})$ ,  $NR_{11}R_{14}$ ,  $SiR_{10}R_{11}R_{14}$  and/or  $SiOR_{10}OR_{11}OR_{14}$ ; or  $NR_{12}R_{13}$ ,  $NR_{11}R_{14}$  or  $NR_{10}R_{15}$  is a five- or six-membered heterocycle which may contain a further N or O atom and which can be mono- or poly-substituted by  $C_1$ - $C_8$ alkyl;

 $R_{16}$  and  $R_{17}$  are each independently of the other mono- or poly-substituted  $C_1$ - $C_{12}$ alkyl,  $C_2$ - $C_{12}$ alkenyl,  $C_3$ - $C_{12}$ cycloalkyl,  $C_3$ - $C_{12}$ cycloalkenyl,  $C_3$ - $C_{12}$ heterocycloalkyl,  $C_7$ - $C_{12}$ aralkyl,  $C_6$ - $C_{10}$ aryl or  $C_5$ - $C_9$ heteroaryl;

M' is a transition metal cation having r positive charges;

A<sup>m-</sup> is an inorganic, organic or organometallic anion, or a mixture thereof;

Z<sup>n+</sup> is a proton, a metal, ammonium or phosphonium cation, a positively charged organic or organometallic chromophore, or a mixture thereof;

it being possible once or more times radicals of the same or different ligands  $L_1$ ,  $L_2$ ,  $L_3$  and/or  $L_4$ , each selected from the group consisting of  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$ ,  $R_8$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$ ,  $R_{14}$ ,  $R_{15}$  and  $R_{16}$ , to be bonded to one another in pairs by way of a direct bond or an -O-, -S- or -N( $R_{17}$ )- bridge, and/or for from 0 to p anions  $A^{m-}$  and/or from 0 to q cations  $Z^{n+}$  each to be bonded to any radical  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$ ,  $R_8$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$ ,  $R_{13}$ ,  $R_{14}$ ,  $R_{15}$ ,  $R_{16}$  or  $R_{17}$  of the same or different ligands  $L_1$ ,  $L_2$ ,  $L_3$  and/or  $L_4$  or to  $M^r$  by way of a direct bond or an -O-, -S- or -N( $R_{17}$ )- bridge;

k is an integer from 1 to 6;

m, n and r are each independently of the others an integer from 1 to 4; preferably m and n are 1 or 2 and r is 2 or 3; o is a number from 1 to 4; and

[[o,]] p and q are each a number from 0 to 4, the ratio of o, p and q to one another, according to the charge of the associated sub-structures, being such that in formula (I), (II) or (III) there is no resulting excess positive or negative charge;

and with the further proviso that when  $R_1$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_7$  and  $R_8$  are all H,  $R_2$  is OH,  $R_6$  is NO<sub>2</sub>, M is Co and r is 3,  $[Z^{n+}]_q$  does not have the formula

wherein  $R_{18}$  and  $R_{28}$  are each independently of the other hydrogen;  $C_1$ - $C_{24}$ alkyl,  $C_2$ - $C_{24}$ alkenyl,  $C_3$ - $C_{24}$ cycloalkyl,  $C_3$ - $C_{24}$ cycloalkenyl or  $C_3$ - $C_{12}$ heterocycloalkyl each unsubstituted or mono- or polysubstituted by halogen,  $NO_2$ , CN,  $NR_{35}R_{36}$ ,  $NR_{35}R_{36}R_{37}^{-}$ ,  $NR_{35}COR_{36}$ ,  $NR_{35}COR$ 

OSiR<sub>37</sub>R<sub>38</sub>R<sub>39</sub>; or C<sub>7</sub>-C<sub>18</sub>aralkyl, C<sub>6</sub>-C<sub>14</sub>aryl or C<sub>4</sub>-C<sub>12</sub>heteroaryl each unsubstituted or mono- or polysubstituted by halogen, NO<sub>2</sub>, CN, NR<sub>35</sub>R<sub>36</sub>, NR<sub>35</sub>R<sub>36</sub>R<sub>37</sub> $^{+}$ , NR<sub>35</sub>COR<sub>36</sub>, NR<sub>37</sub>CONR<sub>35</sub>R<sub>36</sub>, R<sub>35</sub>, OR<sub>35</sub>, SR<sub>35</sub>, CHO, CR<sub>37</sub>OR<sub>35</sub>OR<sub>36</sub>, COR<sub>35</sub>, SO<sub>2</sub>R<sub>35</sub>, SO<sub>3</sub> $^{-}$ , SO<sub>3</sub>R<sub>35</sub>, SO<sub>2</sub>NR<sub>35</sub>R<sub>36</sub>, COO $^{-}$ , COOR<sub>35</sub>, CONR<sub>35</sub>R<sub>36</sub>, PO<sub>3</sub> $^{-}$ , PO(OR<sub>35</sub>)(OR<sub>36</sub>), SiR<sub>37</sub>R<sub>38</sub>R<sub>39</sub>, OSiR<sub>37</sub>R<sub>38</sub>R<sub>39</sub> or SiOR<sub>37</sub>OR<sub>38</sub>OR<sub>39</sub>; but R<sub>18</sub> and R<sub>28</sub> are not simultaneously hydrogen;

 $R_{19}$ ,  $R_{20}$ ,  $R_{26}$  and  $R_{27}$  are each independently of the others  $C_1$ - $C_{12}$ alkyl unsubstituted or mono- or polysubstituted by halogen,  $OR_{37}$ ,  $SR_{37}$ ,  $NO_2$ , CN,  $NR_{40}R_{41}$ ,  $COO^-$ , COOH,  $COOR_{37}$ ,  $SO_3^-$ ,  $SO_3H$  or  $SO_3R_{37}$ ,

it being possible for  $R_{19}$  and  $R_{20}$  and/or  $R_{26}$  and  $R_{27}$  and/or  $R_{31}$  and  $R_{32}$  and/or  $R_{33}$  and  $R_{34}$  to be so bonded to one another in pairs by way of a direct bond or an -O-, -S- or -NR<sub>42</sub>- bridge that together they form a 5- to 12-membered ring;

 $R_{21}$  and  $R_{25}$  are each independently of the other  $C_1$ - $C_3$ alkylene or  $C_1$ - $C_3$ alkenylene each unsubstituted or mono- or poly-substituted by halogen,  $R_{42}$ ,  $OR_{42}$ ,  $SR_{42}$ ,  $NO_2$ , CN,  $NR_{43}R_{44}$ ,  $COO^-$ , COOH,  $COOR_{42}$ ,  $SO_3^-$ ,  $SO_3H$  or  $SO_3R_{42}$ ;

 $R_{22}$ ,  $R_{24}$ ,  $R_{29}$  and  $R_{30}$  are each independently of the others hydrogen, halogen,  $OR_{45}$ ,  $SR_{45}$ ,  $NO_2$ ,  $NR_{45}R_{46}$ ; or  $C_1$ - $C_{24}$ alkyl,  $C_2$ - $C_{24}$ alkenyl,  $C_2$ - $C_{24}$ alkynyl,  $C_3$ - $C_{24}$ cycloalkyl,  $C_3$ - $C_{24}$ cycloalkyl,  $C_3$ - $C_{24}$ cycloalkyl or  $C_7$ - $C_{18}$ aralkyl each unsubstituted or mono- or poly-substituted by halogen,  $OR_{45}$ ,  $SR_{45}$ ,  $NO_2$ , CN or  $NR_{45}R_{46}$ ;

 $R_{23}$  is hydrogen;  $(CH_2)_kCOO^-$ ,  $(CH_2)_kCOOR_{47}$ ,  $C_1$ - $C_{24}$ alkyl,  $C_2$ - $C_{24}$ alkenyl,  $C_2$ - $C_{24}$ alkynyl,  $C_3$ - $C_{24}$ cycloalkyl or  $C_3$ - $C_{24}$ cycloalkenyl each unsubstituted or mono- or poly-substituted by halogen,  $NR_{47}R_{48}$  or  $OR_{48}$ ; or  $C_7$ - $C_{18}$ aralkyl,  $C_6$ - $C_{14}$ aryl or  $C_5$ - $C_{13}$ heteroaryl each unsubstituted or mono- or poly-substituted by halogen,  $NO_2$ , CN,  $NR_{47}R_{48}$ ,  $SO_3^-$ ,  $SO_3R_{47}$ ,  $SO_2NR_{47}R_{48}$ ,  $COO^-$ ,  $(CH_2)_kOR_{47}$ ,  $(CH_2)_kOCOR_{47}$ ,  $COOR_{47}$ ,  $COOR_{47}$ ,  $CONR_{47}R_{48}$ ,  $OR_{47}$ ,  $SR_{47}$ ,  $PO_3^-$ ,  $PO(OR_{47})(OR_{48})$  or  $SiR_{37}R_{38}R_{39}$ ;

R<sub>31</sub>, R<sub>32</sub>, R<sub>33</sub> and R<sub>34</sub> are each independently of the others C<sub>1</sub>-C<sub>12</sub>alkyl unsubstituted or mono- or polysubstituted by halogen, OR<sub>35</sub>, SR<sub>35</sub>, NO<sub>2</sub>, CN, NR<sub>40</sub>R<sub>41</sub>, COOR<sub>37</sub>, SO<sub>3</sub><sup>-</sup>, SO<sub>3</sub>H or SO<sub>3</sub>R<sub>35</sub>;

 $R_{35}$ ,  $R_{36}$ ,  $R_{40}$ ,  $R_{41}$ ,  $R_{42}$ ,  $R_{43}$ ,  $R_{44}$ ,  $R_{45}$ ,  $R_{46}$ ,  $R_{47}$  and  $R_{48}$  are each independently of the others hydrogen;  $C_1$ - $C_{24}$ alkyl,  $C_2$ - $C_{24}$ alkenyl,  $C_3$ - $C_{24}$ cycloalkyl,  $C_3$ - $C_{24}$ cycloalkenyl or

C<sub>3</sub>-C<sub>12</sub>heterocycloalkyl each unsubstituted or mono- or poly-substituted by halogen, NO<sub>2</sub>, CN, NR<sub>37</sub>R<sub>38</sub>, NR<sub>37</sub>R<sub>38</sub>R<sub>39</sub><sup>+</sup>, NR<sub>37</sub>COR<sub>38</sub>, NR<sub>37</sub>CONR<sub>38</sub>R<sub>39</sub>, OR<sub>37</sub>, SR<sub>37</sub>, COO<sup>-</sup>, COOH, COOR<sub>37</sub>, CHO, CR<sub>37</sub>OR<sub>38</sub>OR<sub>39</sub>, COR<sub>37</sub>, SO<sub>2</sub>R<sub>37</sub>, SO<sub>3</sub><sup>-</sup>, SO<sub>3</sub>H, SO<sub>3</sub>R<sub>37</sub> or OSiR<sub>37</sub>R<sub>38</sub>R<sub>39</sub>; or C<sub>7</sub>-C<sub>18</sub>aralkyl, C<sub>6</sub>-C<sub>14</sub>aryl or C<sub>5</sub>-C<sub>13</sub>heteroaryl each unsubstituted or mono- or poly-substituted by halogen, NO<sub>2</sub>, CN, NR<sub>37</sub>R<sub>38</sub>, NR<sub>37</sub>R<sub>38</sub>R<sub>39</sub><sup>+</sup>, NR<sub>37</sub>COR<sub>38</sub>, NR<sub>37</sub>CONR<sub>38</sub>R<sub>39</sub>, R<sub>37</sub>, OR<sub>37</sub>, SR<sub>37</sub>, CHO, CR<sub>37</sub>OR<sub>38</sub>OR<sub>39</sub>, COR<sub>37</sub>, SO<sub>2</sub>R<sub>37</sub>, SO<sub>3</sub><sup>-</sup>, SO<sub>2</sub>NR<sub>37</sub>R<sub>38</sub>, COO<sup>-</sup>, COOR<sub>39</sub>, CONR<sub>37</sub>R<sub>38</sub>, PO<sub>3</sub><sup>-</sup>, PO(OR<sub>37</sub>)(OR<sub>38</sub>), SiR<sub>37</sub>R<sub>38</sub>R<sub>39</sub>, OSiR<sub>37</sub>R<sub>38</sub>R<sub>39</sub> or

## SiOR<sub>37</sub>OR<sub>38</sub>OR<sub>39</sub>;

or NR<sub>35</sub>R<sub>36</sub>, NR<sub>40</sub>R<sub>41</sub>, NR<sub>43</sub>R<sub>44</sub>, NR<sub>45</sub>R<sub>46</sub> or NR<sub>47</sub>R<sub>48</sub> are a five- or six-membered heterocycle which may contain a further N or O atom and which can be mono- or poly-substituted by C<sub>1</sub>-C<sub>8</sub>alkyl;

 $R_{37}$ ,  $R_{38}$  and  $R_{39}$  are each independently of the others hydrogen,  $C_1$ - $C_{20}$ alkyl,  $C_2$ - $C_{20}$ alkenyl,  $C_2$ - $C_{20}$ alkynyl or  $C_7$ - $C_{18}$ aralkyl, it being possible for  $R_{37}$  and  $R_{38}$  to be bonded to one another by way of a direct bond or an -O-, -S- or -NC<sub>1</sub>- $C_8$ alkyl- bridge so that together they form a five- or six-membered ring;

it being possible for from 1 to 4 radicals selected from the group consisting of  $R_{18}$ ,  $R_{19}$ ,  $R_{21}$ ,  $R_{22}$ ,  $R_{23}$ ,  $R_{24}$ ,  $R_{25}$ ,  $R_{26}$ ,  $R_{28}$ ,  $R_{29}$ ,  $R_{30}$ ,  $R_{36}$ ,  $R_{37}$ ,  $R_{38}$ ,  $R_{39}$ ,  $R_{40}$ ,  $R_{41}$ ,  $R_{42}$ ,  $R_{43}$ ,  $R_{44}$ ,  $R_{45}$ ,  $R_{46}$ ,  $R_{47}$  and  $R_{48}$  to be bonded to one another in pairs by way of a direct bond or an -O-, -S- or -N(G)- bridge or bonded singly to  $A^{m-}$  and/or  $Z^{n+}$ , wherein G is mono- or poly-substituted  $C_1$ - $C_{24}$ alkyl,  $C_2$ - $C_{24}$ alkenyl,  $C_3$ - $C_{24}$ cycloalkyl,  $C_3$ - $C_{24}$ cycloalkenyl,  $C_3$ - $C_{12}$ heterocycloalkyl,  $C_7$ - $C_{18}$ aralkyl,  $C_6$ - $C_{14}$ aryl or  $C_5$ - $C_{13}$ heteroaryl.

- **2.** (original): An optical recording medium according to claim 1, wherein  $R_2$  and  $R_4$  are hydroxy,  $O^-$ , mercapto or  $S^-$  and  $R_6$  or  $R_7$  is nitro or cyano;  $Z^{n+}$  is a xanthene; and/or  $R_{10}$  is methyl, ethyl, n-propyl, isopropyl, n-butyl, 2-butyl, isobutyl, tert-butyl, 3-pentyl, n-amyl, tert-amyl, neopentyl, 2,2-dimethyl-but-4-yl, 2,2,4-trimethyl-pent-5-yl, cyclopropyl, cyclopropylmethyl, cyclobutyl, cyclobutylmethyl, cyclopentyl, cyclopentylmethyl, cyclohexyl, cyclohexylmethyl, cyclohex-4-enyl-methyl, 5-methyl-cyclohex-4-enyl-methyl or 2-ethyl-hexyl, each unsubstituted or mono- or poly-substituted by fluorine.
- 3. (currently amended): An optical recording medium according to claim 1-or-2, wherein M<sup>r+</sup> is Co<sup>2+</sup>, Co<sup>3+</sup>, Cu<sup>2+</sup>, Cu<sup>2+</sup>, Zn<sup>2+</sup>, Cr<sup>3+</sup>, Ni<sup>2+</sup>, Fe<sup>2+</sup>, Fe<sup>3+</sup>, Al<sup>3+</sup>, Ce<sup>2+</sup>, Ce<sup>3+</sup>, Mn<sup>2+</sup>, Mn<sup>3+</sup>, Si<sup>4+</sup>, Ti<sup>4+</sup>, V<sup>3+</sup>, V<sup>5+</sup> or Zr<sup>4+</sup>.

- **4.** (currently amended): An optical recording medium according to claim 1, <del>2 or 3,</del> additionally comprising a cyanine or xanthene cation. <del>preferably a benzoindocarbocyanine or rhodamine cation.</del>
- **5.** (currently amended): A method for the optical recording, storage or playback of information, wherein a recording medium according to claim 1, 2, 3 or 4 is used.
- **6. (currently amended):** A method according to claim 5, wherein the recording and/or the playback take place in a wavelength range of from 600 to 700 nm. , preferably from 630 to 690 nm, more especially from 640 to 680 nm, very especially from 650 to 670 nm, particularly at 658±5 nm.
- 7. (currently amended): A method of producing an optical recording medium, wherein a solution of a compound of formula (I), (II) or (III) according to claim 1, 2 or 3 in an organic solvent is applied to a substrate having depressions.
- **8.** (currently amended): A method for the optical recording, storage or playback of information, wherein a recording medium according to claim 1, 2 or 3 is used.
- **9.** (original): A method according to claim 8, wherein the recording and/or the playback take place in a wavelength range of from 600 to 700 nm.
- **10.** (currently amended): A compound of formula (II) or (III) according to claim 1,  $\frac{2 \text{ or } 3}{2 \text{ or a}}$  or a tautomeric or mesomeric form thereof wherein  $R_2$  is  $O^-$ ,  $S^-$ ,  $N^-COR_{11}$ ,  $N^-COOR_9$ ,  $N^-CONR_{12}R_{13}$  or  $N^-CN$ .
- 11.(new): An optical recording medium according to claim 1, wherein either  $Q_1$  is  $CR_1$  and  $Q_3$  is  $CR_3$  or  $Q_1$  and  $Q_3$  are both N, and/or  $Q_8$  in  $Q_5=Q_8$ ,  $Q_6=Q_8$  or  $Q_7=Q_8$  is in the  $\beta$ -position relative to the

$$G_1$$
 ,  $H$  nitrogen atom of

**12.** (new): An optical recording medium according to claim 2, wherein M<sup>r+</sup> is Co<sup>2+</sup>, Co<sup>3+</sup>, Cu<sup>+</sup>, Cu<sup>2+</sup>, Zn<sup>2+</sup>, Cr<sup>3+</sup>, Ni<sup>2+</sup>, Fe<sup>2+</sup>, Fe<sup>3+</sup>, Al<sup>3+</sup>, Ce<sup>2+</sup>, Ce<sup>3+</sup>, Mn<sup>2+</sup>, Mn<sup>3+</sup>, Si<sup>4+</sup>, Ti<sup>4+</sup>, V<sup>3+</sup>, V<sup>5+</sup> or Zr<sup>4+</sup>.

- **13.** (new): An optical recording medium according to claim 4, wherein the cyanine or xanthene cation is a benzoindocarbocyanine or rhodamine cation.
- **14. (new):** An optical recording medium according to claim 2 additionally comprising a cyanine or xanthene cation.
- **15.** (new): An optical recording medium according to claim 14, wherein the cyanine or xanthene cation is a benzoindocarbocyanine or rhodamine cation.
- **16.** (new): A method according to claim 5, wherein the recording and/or the playback take place in a wavelength range of from 630 to 690 nm.
- **17.** (new): A method according to claim 5, wherein the recording and/or the playback take place in a wavelength range of from 650 to 670 nm.
- **18. (new):** A method for the optical recording, storage or playback of information, wherein a recording medium according to claim 2 is used.
- **19.** (new): A method according to claim 18, wherein the recording and/or the playback take place in a wavelength range of from 600 to 700 nm.